

## REPORT ON BOILERS.

No. 31145.

Received at London Office

WED. FEB. 28, 1912

Date of writing Report

191

When handed in at Local Office

27.2.1912. Port of Glasgow

No. in Survey held at

Clydebank

Date, First Survey

16<sup>th</sup> June 1910

Last Survey

17<sup>th</sup> Feb 1912

Reg. Book.

on the

Steel Twin 1/2 Wiltshire

(Number of Visits

68)

Tons

Gross 10390

Net 6598

Master R. G. Hawyard

Built at Clydebank

By whom built

John Brown &amp; Co Ltd

When built 1912

Engines made at

Clydebank

By whom made

do

When made 1912

Boilers made at

do

By whom made

do

When made 1912

Registered Horse Power

Owners

Federal Steam Nav Co

Port belonging to London

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

D Colville &amp; Sons

(Letter for record

S)

Total Heating Surface of Boilers

6652

Is forced draft fitted

yes

No. and Description of

Boilers Two - single ended

Working Pressure

215 lbs

Tested by hydraulic pressure to

430 lbs

Date of test 21-11-10

No. of Certificate 10667

Can each boiler be worked separately

yes

Area of fire grate in each boiler

78.8 sq ft

No. and Description of

safety valves to each boiler 2 spring loaded

Area of each valve 8.29 sq in

Pressure to which they are adjusted 215 lbs

Are they fitted with easing gear

yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork 9"

Mean dia. of boilers 14'-0"

Length 11'-6"

Material of shell plates

steel

Thickness

1 3/4"

Range of tensile strength

30 1/2 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams DR lap

long. seams DBS. TR

Diameter of rivet holes in long. seams 1 3/4"

Pitch of rivets 10 1/2"

Lap of plates or width of butt straps 24 1/2"

Per centages of strength of longitudinal joint

rivets 97.1

Working pressure of shell by

rules 233

Size of manhole in shell 16 x 12

Size of compensating ring 3'-6 1/2" x 2'-11"

No. and Description of Furnaces in each

boiler 4 Beighton

Material steel

Outside diameter 46 5/8"

Length of plain part

top —

bottom —

Thickness of plates

crown 11"

bottom 16"

Description of longitudinal joint welded

No. of strengthening rings —

Working pressure of furnace by the rules 243

Combustion chamber

plates: Material steel

Thickness: Sides 5/8"

Back 3/4"

Top 5/8"

Bottom 15/16"

Pitch of stays to ditto: Sides 7 1/2 x 7 1/2"

Back 7 1/2 x 7 1/2"

Top 7 1/2 x 7 1/2" If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules 240

Material of stays

steel

Smallest part 1'-4 8/16" Area supported by each stay 56"

Working pressure by rules 215

End plates in steam space: Material steel

Thickness 1 5/32"

Pitch of stays 16 1/2 x 16 3/8"

How are stays secured

DN

Working pressure by rules 221

Material of stays

steel

Diameter at smallest part 3 7/16"

Area supported by each stay 270"

Working pressure by rules 306

Material of Front plates at bottom

steel

Thickness 15/16"

Material of

Lower back plate

steel

Thickness 1"

Greatest pitch of stays 14 1/2"

Working pressure of plate by rules 262

Diameter of tubes 2 1/2"

Pitch of tubes 3 3/4 x 3 3/4"

Material of tube plates steel

Thickness: Front 13/16"

Back 7/8"

Mean pitch of stays 9 3/8"

Pitch across wide

water spaces 13 1/2" doubled

Working pressures by rules 292

Girders to Chamber tops: Material steel

Depth and thickness of

Girder at centre 2 plates 8 3/4 x 3 3/4"

Length as per rule 30 1/2"

Distance apart 7 1/2"

Number and pitch of Stays in each 34 7 1/2"

Working pressure by rules 231

Superheater or Steam chest: how connected to boiler

none

Can the superheater be shut off and the boiler worked

separately —

Diameter —

Length —

Thickness of shell plates —

Material —

Description of longitudinal joint —

Diam. of rivet

holes —

Pitch of rivets —

Working pressure of shell by rules —

Diameter of flue —

Material of flue plates —

Thickness —

stiffened with rings —

Distance between rings —

Working pressure by rules —

End plates: Thickness —

How stayed —

Working pressure of end plates —

Area of safety valves to superheater

Are they fitted with easing gear —

The foregoing is a correct description,

John Brown & Company, Limited.  
J. Henderson, Manufacturers.Dates of Survey  
During progress of work in shops - -  
while building  
During erection on board vessel - - -

See Machinery report.

Is the approved plan of boiler forwarded herewith

Total No. of visits

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c.)

See report on machinery

Survey Fee ... .. £

When applied for, 191

Travelling Expenses (if any) £

When received, 191

Shipping.

Harry Clarke.  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

GLASGOW

27 FEB. 1912

Assigned

See minute on accompanying machinery report.



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